

Generation and Reservoirs Statistics

January 20, 2024



PUBLIC UTILITIES COMMISSION OF SRI LANKA

1. Daily Generation Mix in MWh

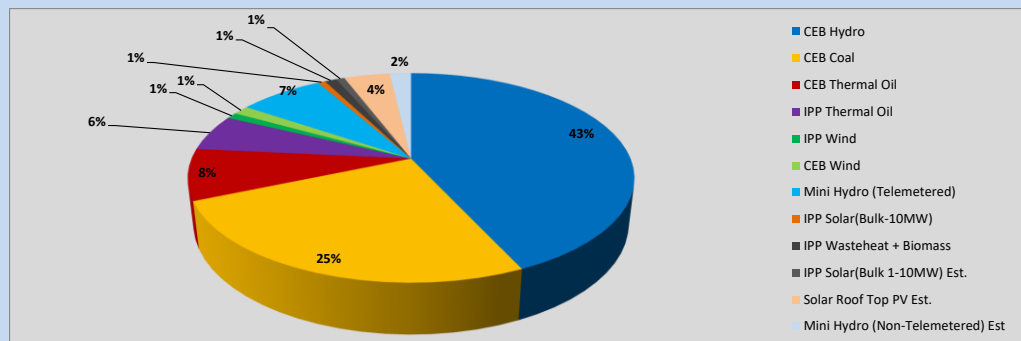


Table 01

	Generation (MWh)
CEB Hydro	17,940
CEB Coal	10,617
CEB Thermal Oil	3,293
IPP Thermal Oil	2,331
IPP Wind	393
CEB Wind	581
Mini Hydro (Telemetered)	3,049
IPP Solar (Bulk)	264
IPP Waste heat + Biomass	424
Total Generation (Excluding estimated figures)	38,892
* Estimated unserved energy	0
* Estimated Mini Hydro (Non telemetered)	770
* Estimated IPP Solar PV (Bulk 1-10MW)	304
* Estimated Solar Roof Top PV	1650
Total Generation (Including estimated figures)	41,616

* Estimated figures of CEB generation report

Table 02

	Installed Capacity (MW)
CEB Hydro	1409
CEB Coal	810
CEB Thermal Oil	781
IPP Thermal Oil (West Coast, ACE Matara and ACE Embilipitiya)	387
IPP Wind	148
CEB Wind	100
Mini Hydro	422
IPP Waste heat + Biomass	50
IPP Solar	136
Rooftop Solar (Ordinary)	277
Rooftop Solar (LT Bulk)	263
Rooftop Solar (HT Bulk)	70

Data Source - Monthly Review Report [Aug-2023]

2. Cumulative Dispatch

Following data excludes the contribution from roof top solar, non telemetered solar and mini hydro plants

Table 03 - Current Month

Category	Dispatch (GWh)	
CEB Hydro	479	57.76%
CEB Coal	123	14.87%
CEB Thermal Oil	25	3.07%
IPP Thermal	42	5.12%
SPP Wind	10	1.24%
CEB Wind	14	1.67%
Mini Hydro *	85	10.19%
IPP Solar *	44	5.29%
IPP Waste heat + BMP	7	0.80%
Total	829	

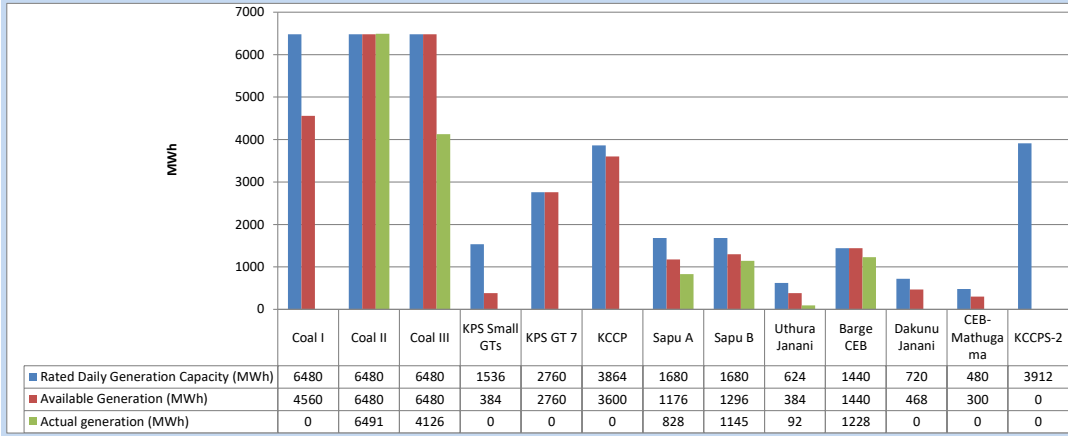
Table 04 - Current Year

Category	Dispatch (GWh)	
CEB Hydro	479	57.76%
CEB Coal	123	14.87%
CEB Thermal Oil	25	3.07%
IPP Thermal	42	5.12%
SPP Wind	10	1.24%
CEB Wind	14	1.67%
Mini Hydro *	85	10.19%
IPP Solar *	44	5.29%
IPP Waste heat	7	0.80%
Total	829	

*Including estimated contribution from non telemetered plants

3. CEB owned Thermal Plant Dispatch

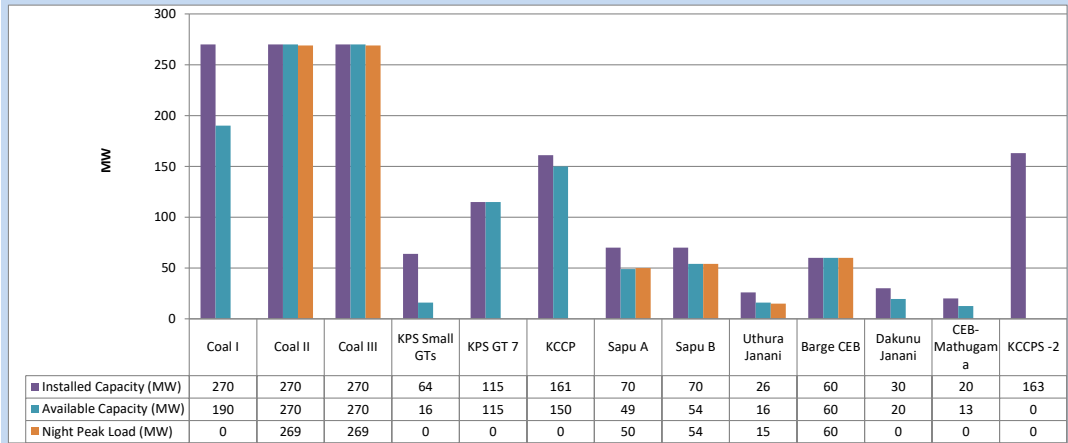
January 20, 2024



Available Generation is estimated based on plant availability at 6.00am on

January 21, 2024

4. CEB owned Thermal Plant Loading at the Night Peak

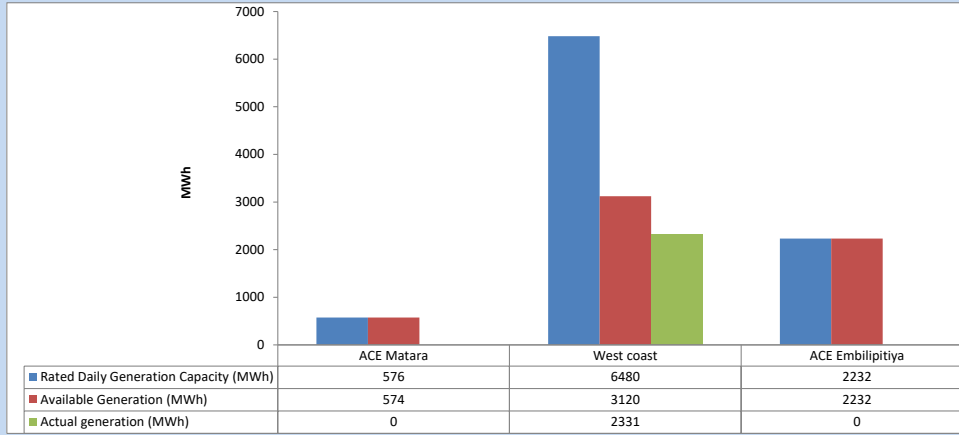


Plant availability is recorded at 6.00 am on

January 21, 2024

5. IPP owned Thermal Plant Dispatch

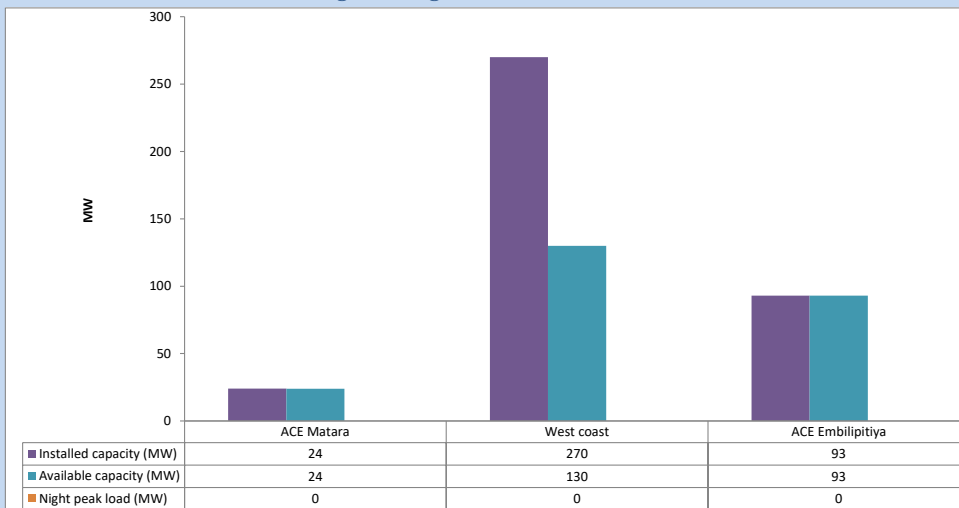
January 20, 2024



Available Generation is estimated based on plant availability at 6.00am on

January 21, 2024

6. IPP owned Thermal Plant Loading at the Night Peak

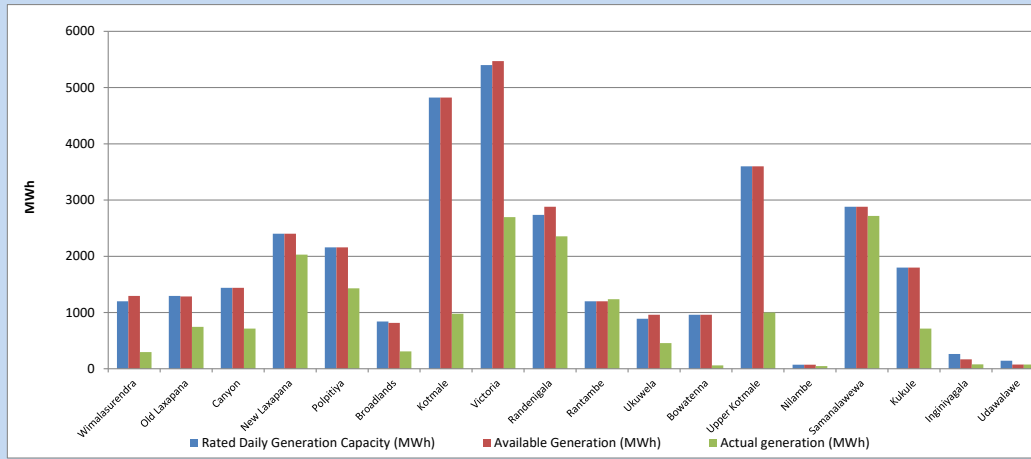


Plant availability is recorded at 6.00 am on

January 21, 2024

7. Major Hydro Plant Dispatch

January 20, 2024

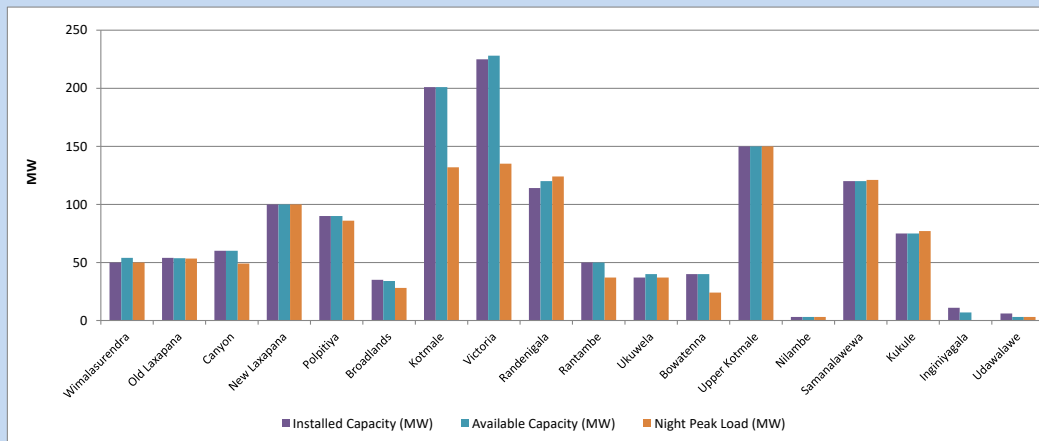


Available Generation is estimated based on plant availability at 6.00am on
Broadlands power plant is operating in the Commissioning Stage

January 21, 2024

8. Major Hydro Plant Loading at Night Peak

January 20, 2024



Plant availability is recorded at 6.00 am on
Broadlands power plant is operating in the Commissioning Stage

January 21, 2024

9. Summary of Major Plant performance

Table 05

Plant	Installed Capacity	Plant Availability	Night peak Load	Plant Dispatch
	(MW)	(MW)	(MW)	(MWh)
Wimalasurendra	50	54	50	297
Old Laxapana	54	54	53	746
Canyon	60	60	49	714
New Laxapana	100	100	100	2,028
Polpitiya	90	90	86	1,430
Broadlands	35	34	28	308
Kotmale	201	201	132	980
Victoria	225	228	135	2,696
Randenigala	114	120	124	2,356
Rantambe	50	50	37	1,236
Ukuwela	37	40	37	455
Bowatenna	40	40	24	61
Upper Kotmale	150	150	150	1,000
Nilambe	3	3	3	47
Samanalawewa	120	120	121	2,718
Kukule	75	75	77	715
Inginiyagala	11	7	0	79
Udawalawe	6	3	3	74
Puttalam Coal I	270	190	0	0
Puttalam Coal II	270	270	269	6,491
Puttalam Coal III	270	270	269	4,126
KPS Small GTs	64	16	0	0
KPS GT 7	115	115	0	0
KCCP	161	150	0	0
Sapugaskanda A	70	49	50	828
Sapugaskanda B	70	54	54	1,145
Uthura Janani	26	16	15	92
Barge CEB	60	60	60	1,228
CEB-Hambantota	30	20	0	0
CEB-Mathugama	20	13	0	0
ACE Matara	24	24	0	0
Asia Power	50	0	0	0
KCCPS -2	163	0	0	0
West Coast	270	130	0	2,331
Nothern Power	36	0	0	0
ACE Embilipitiya	93	93	0	0
Total	3,483	2,898	2,102	38,892

Plant availability is the availability recorded at 6 am on

January 21, 2024

10. Contribution to the Night Peak in MW

January 20, 2024

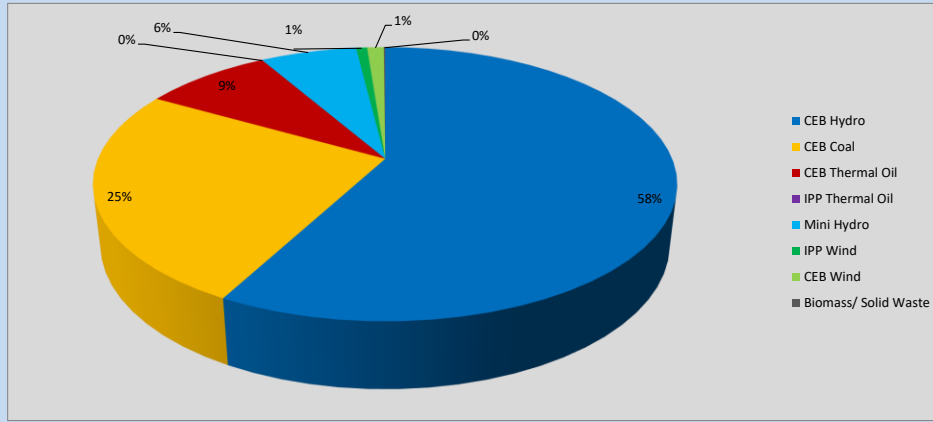


Table 06

CEB Hydro	1224	MW
CEB Coal	538	MW
CEB Thermal Oil	179	MW
IPP Thermal Oil	0	MW
Mini Hydro (Telemetered)	135	MW
IPP Wind	15.4	MW
CEB Wind	23.4	MW
Biomass/ Solid Waste	2	MW

Recorded Peak Demand Data

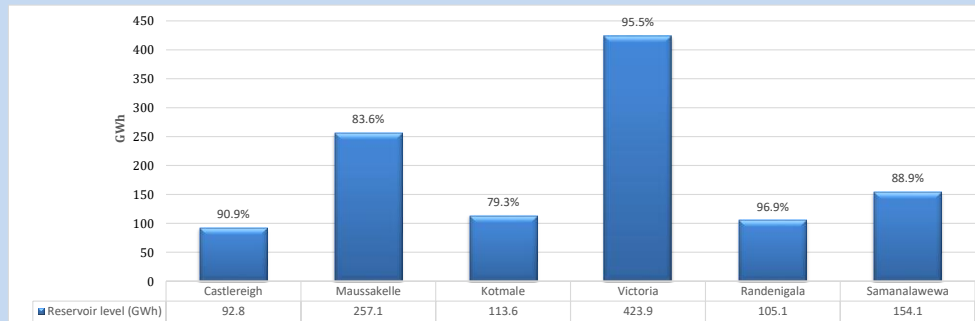
Table 07

Night Peak*	2,117	MW
Day Peak Maximum Demand	1,791	MW
Day Peak Minimum Demand	1,604	MW
Off Peak Minimum Demand	1,243	MW

Above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

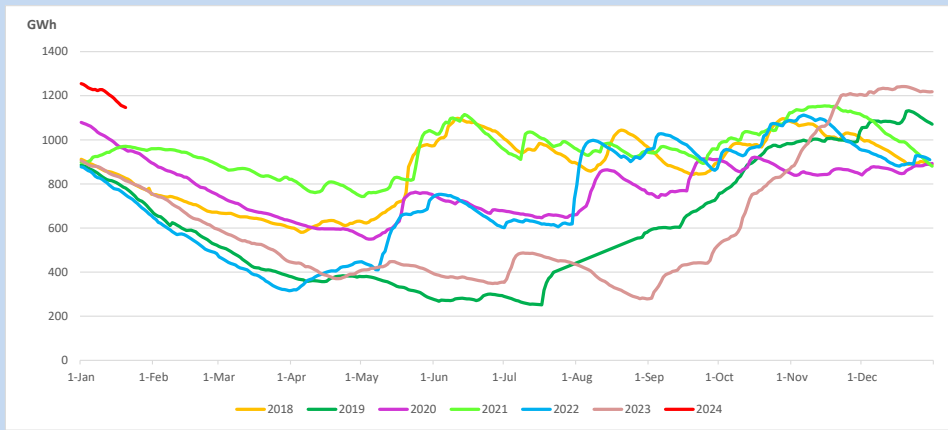
Reservoir Levels -

as at 06.00 Hr on January 21, 2024

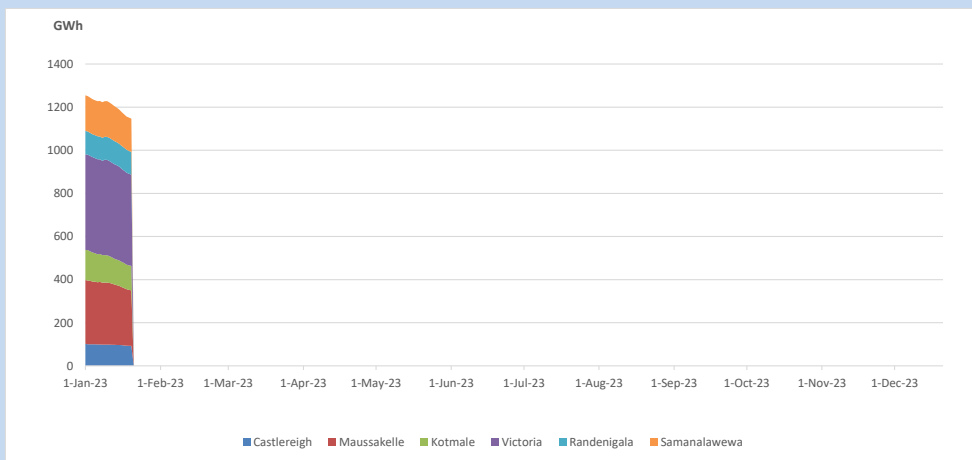


Total Reservoir Level 1146.6 GWh
% of Total capacity 89.7%

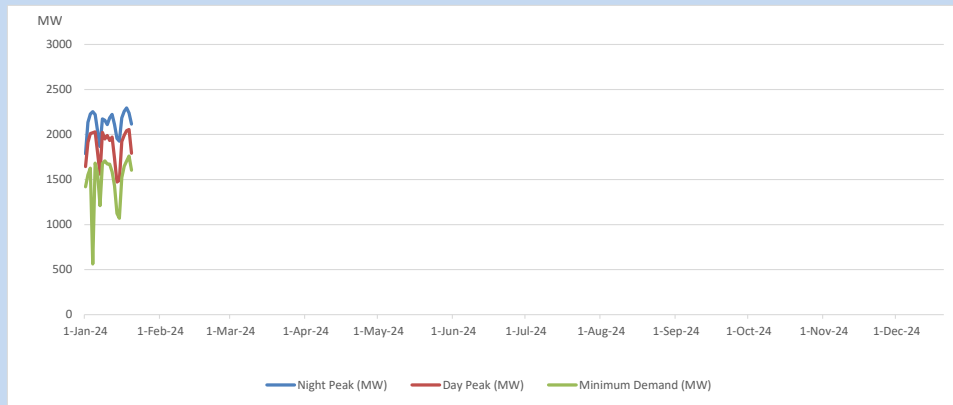
11. Comparison of Total Reservoir Storage Levels with Past Years



12. Variation of Major Hydro Reservoir Levels in the current year (GWh)



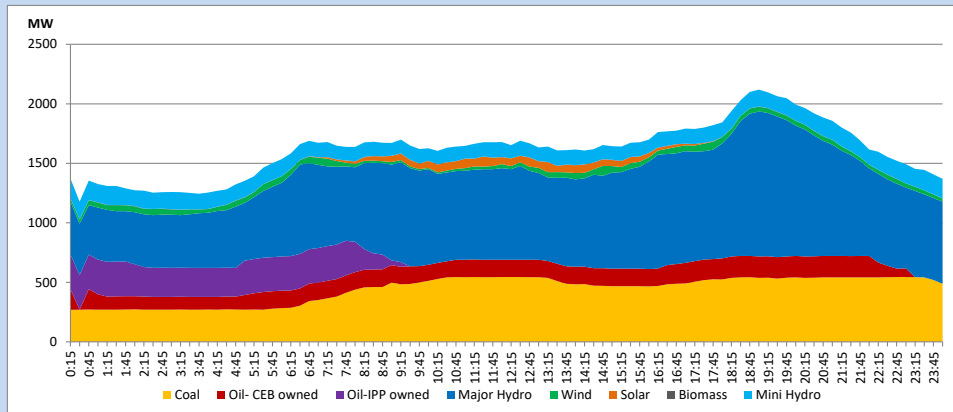
13. Variation of Demand during the current year



The above figures are excluding contribution from roof top solar, non telemetered solar and mini hydro plants

14. Daily Load Curve

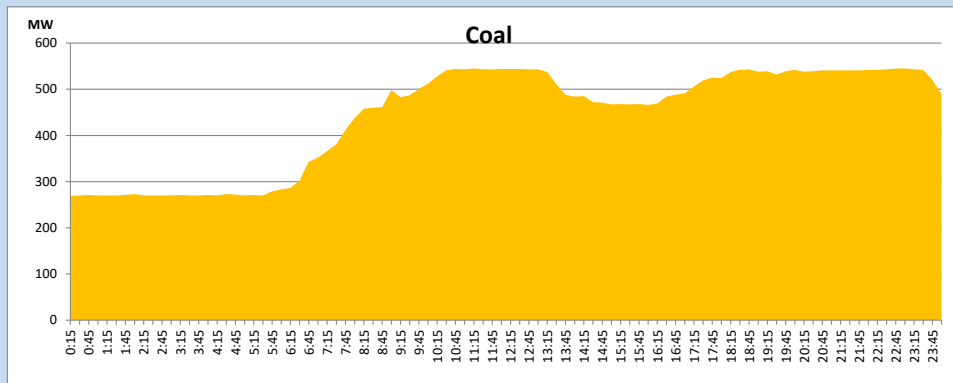
January 20, 2024



Solar and wind data is based on Telemetered Power Stations only

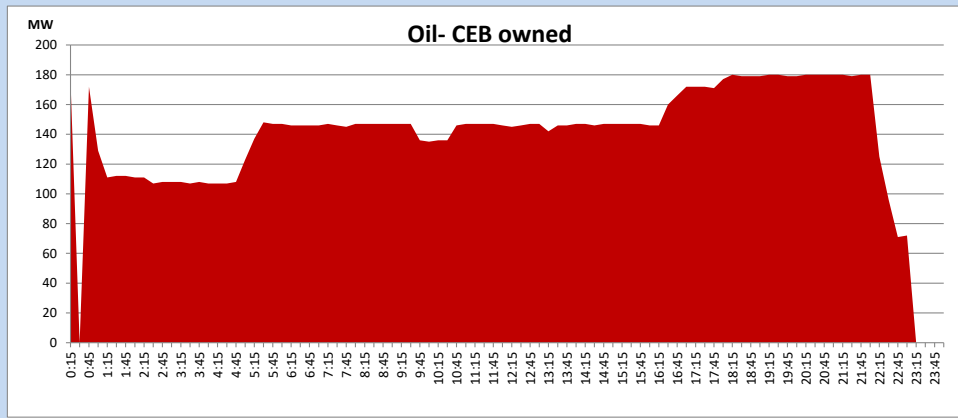
Coal Generation during

January 20, 2024



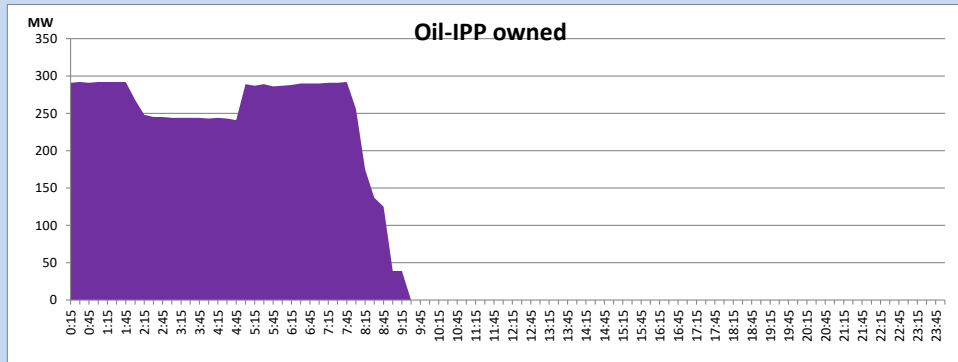
CEB Oil Plant Generation during

January 20, 2024



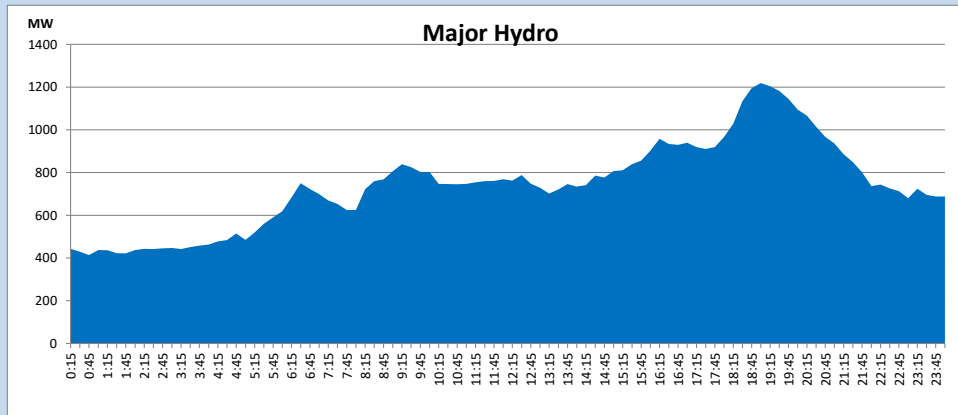
IPP Oil Plant Generation during

January 20, 2024



Major Hydro Generation during

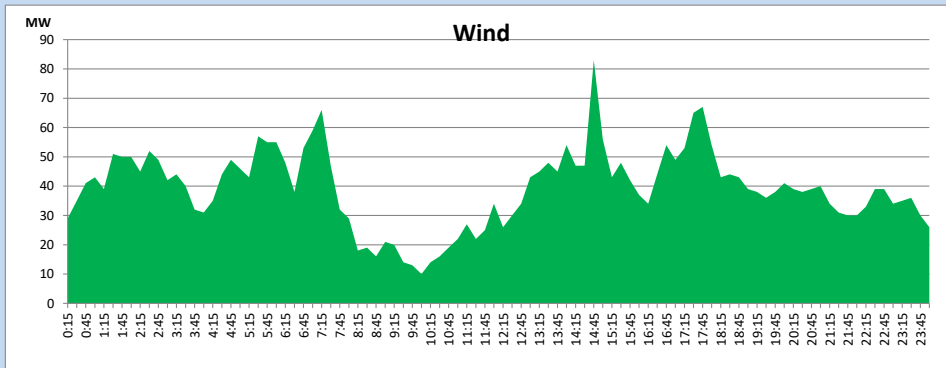
January 20, 2024



Wind Generation during

January 20, 2024

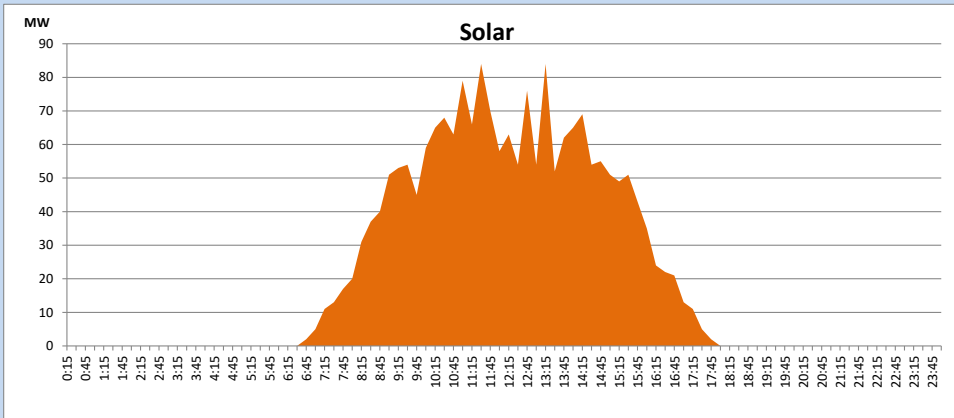
Based on Telemetered Power Stations only



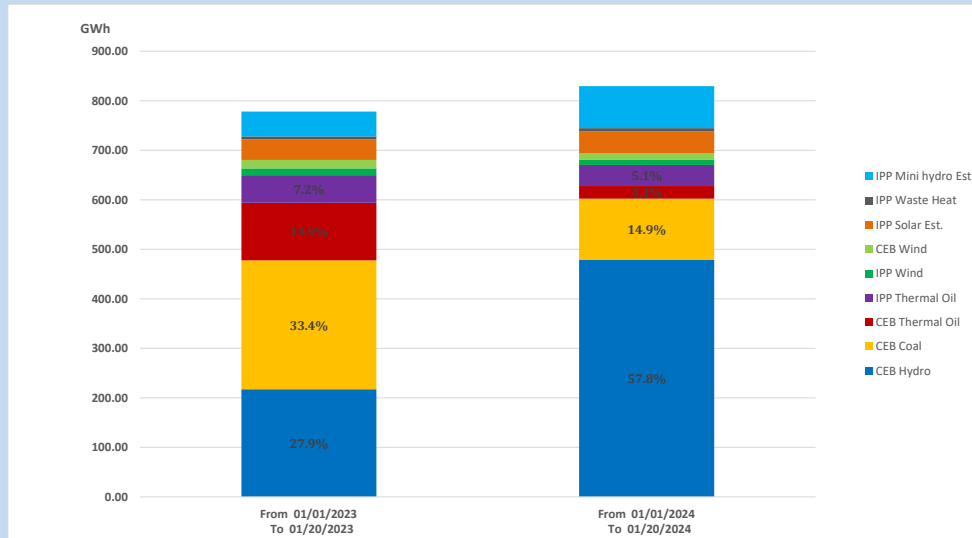
Solar Generation during

January 20, 2024

Based on Telemetered Power Stations only



15. Cumulative Dispatch Comparison with Last Year



Cumulative dispatch
 From 01/01/2023 To 01/20/2023
 From 01/01/2024 To 01/20/2024

778 GWh
 829 GWh

The above figures are including contribution from roof top solar, non telemetered solar and mini hydro plants)

Thermal Plant Fuel types

Table 08

Power Station	Primary Fuel
CEB Thermal	
Sapugaskanda 1	Heavy Fuel
Sapugaskanda 2	Heavy Fuel
Kelanitissa Small Gas Turbines	Auto Diesel
GT 7 - Kelanitissa	Auto Diesel
Kelanitissa CCY	Naphtha or Diesel
Lakvijaya 1	Coal
Lakvijaya 2	Coal
Lakvijaya 3	Coal
Uthuru Janani	Heavy Fuel
Barge CEB	Heavy Fuel
KCCPS -2	Auto Diesel

Power Station	Primary Fuel
Private Thermal	
West Coast	Auto Diesel / Heavy Fuel
ACE Matara	Heavy Fuel
ACE Embilipitiya	Heavy Fuel

Major Incidents reported during the day

January 20, 2024

- 1) LVPS unit 03 synchronized at 05:43hrs and reached full load at 10:31hrs. The unit de-loaded to 190MW(Net) at 14:25hrs due to high rate o bottom ash accumulation and reached full load again by 18:15hrs
- 2) Badulla-Uma Oya 132kV cct tripped only from Badulla end, along with Badulla 132kV B/C at 10:07hrs, without any indications. The cct and B/C were normalized at 16:50hrs. The same cct and B/C tripped again at 18:07hrs without any indications and are yet to be normalized
- 3) Embilipitiya 132/33kV T/F 01 tripped from both ends at 21:47hrs along with 33kV feeder 02 and 33kV B/S CB, due to the operation of O/C and E/F protection, causing all feeders of 33kV B/S 01 to be dead. The 33kV B/S CB and all affected feeders except feeder 02 were normalized by 21:51hrs. T/F 01 was restored at 22:00 hrs